

LISTING OF CLAIMS

1-29. (Canceled)

30. (Currently Amended) A light transmitting photochromic lens comprising photochromic dyes and having a visible colored appearance, the photochromic lens further comprising a multi-layer thin film coating applied on an outer surface thereof, the multi-layer thin film coating comprising a plurality of dielectric layers, wherein the film coating reflects an amount less than about 15% of spectral ultraviolet radiation in a range between 315 and 400 nm and reflects an amount equal to or greater than about 10% of light in the visible spectrum in a range between 410 and 800 nm so that the lens exhibits the visible colored appearance.

31. (Previously Presented) The lens of claim 30, wherein the colored appearance comprises a mirror like appearance.

32. (Previously Presented) The lens of claim 30, wherein the colored appearance comprises a white silver like appearance.

33. (Previously Presented) The lens of claim 30, wherein the multi-layer thin film coating reflects less than 6% of spectral ultraviolet radiation.

34. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises SiO₂ layers.

35. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises TiO₂ layers.

36. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers are arranged to alternate low and high refractive indices.

37. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises ZrO₂ layers.

38. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises twelve layers.

39. (Previously Presented) The lens of claim 38, wherein the multi-layer thin film coating comprises a twelve layer arrangement comprising alternating TiO₂ and SiO₂ layers.

40. (Previously Presented) The lens of claim 38, wherein the multi-layer thin film coating comprises a twelve layer arrangement comprising TiO₂, SiO₂ and ZrO₂ layers.

41. (Canceled)

42. (Previously Presented) The lens of claim 30, wherein the plurality of dielectric layers comprises up to 100 layers.

43. (Currently Amended) The lens of claim 30, the lens having a photochromic range ~~an activation value~~ of greater than about 25%.

44. (Currently Amended) The lens of claim 30, the lens having a photochromic range ~~an activation value~~ of greater than about 40%.

45. (Currently Amended) The lens of claim 30, the lens having a photochromic range ~~an activation value~~ of greater than about 90%.

46. (Currently Amended) The lens of claim 30, the lens having a photochromic range
~~an activation value of greater than about 297% 97%.~~

47. (Currently Amended) The lens of claim 30, the lens having a photochromic range
~~an activation value of approximately the activation value of the uncoated photochromic lens.~~

48. (Previously Presented) The lens of claim 39, wherein the dielectric layers
are selected and arranged in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂, TiO₂, SiO₂,
TiO₂, SiO₂, TiO₂, SiO₂, so as to obtain a silver mirror like appearance of the lens.

49. (Previously Presented) The lens of claim 40, wherein the dielectric layers
are selected and arranged in a sequence: TiO₂, SiO₂, TiO₂, SiO₂, ZrO₂, SiO₂, TiO₂, SiO₂,
TiO₂, SiO₂, ZrO₂, SiO₂, so as to obtain a silver mirror like appearance of the lens.

50. (Previously Presented) The lens of claim 30, wherein the lens is a sunglass
lens.

51. (Currently Amended) A method of creating a light transmitting colored
photochromic lens comprising photochromic dyes, the method comprising forming a
photochromic lens part and applying a plurality of dielectric layers onto the outer surface of a
photochromic lens part wherein the plurality of dielectric layers collectively reflect an amount
less than about 15% of spectral ultraviolet radiation in a range between 315 and 400 nm and
reflect an amount equal to or greater than about 10% of light in the visible spectrum in a range
between 410 and 800 nm so that the lens exhibits a visible colored appearance.

52. (Previously Presented) The method of claim 51, further comprising applying a twelve layer arrangement comprising alternating TiO_2 and SiO_2 layers.

53. (Previously Presented) The method of claim 52, further comprising applying twelve layers of TiO_2 and SiO_2 on the photochromic lens in a sequence: TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , in order to obtain a silver mirror like appearance.

54. (Previously Presented) The method of claim 51, further comprising applying a twelve layer arrangement comprising TiO_2 , SiO_2 and ZrO_2 layers.

55. (Previously Presented) The method of claim 54, further comprising applying twelve layers of TiO_2 , SiO_2 and ZrO_2 on the photochromic lens in a sequence: TiO_2 , SiO_2 , TiO_2 , SiO_2 , ZrO_2 , SiO_2 , TiO_2 , SiO_2 , TiO_2 , SiO_2 , ZrO_2 , SiO_2 , in order to obtain a white silver like appearance.

56. (New) The method of claim 51, wherein the forming the photochromic lens part includes:

forming a lens part and imbining one or more photochromic dyes onto a surface of the lens part; or

dissolving one or more photochromic dyes in a mass of polymer and forming the lens part therefrom; or

forming a lens part and coating the lens part with one or more photochromic dyes onto a surface of the lens part.

57. (New) A photochromic sunglass lens, ophthalmic lens, visor or mask having a visible colored appearance, comprising:

a photochromic lens part constructed and shaped to be worn proximate a person's eyes,

the lens part having an inner surface facing the eyes and an outer surface facing outward away from the eyes,

the lens part further comprising one or more photochromic dyes; and
a light-transmitting multi-layer thin film coating applied on the outer surface of the lens part, the multi-layer thin film coating comprising a plurality of dielectric layers,

wherein the film coating transmits an amount greater than about 15% of spectral ultraviolet radiation in a range between 315 and 400 nm to the lens part,

the film coating reflecting an amount equal to or greater than about 10% of light in the visible spectrum in a range between 410 and 800 nm so that the sunglass lens, ophthalmic lens, visor or mask exhibits the visible colored appearance;

wherein the sunglass, ophthalmic lens, visor or mask transmits light therethrough.

58. (New) The sunglass lens, ophthalmic lens, visor or mask of claim 57, wherein the photochromic dyes in the lens part impart a photochromic range to the sunglass lens, ophthalmic lens, visor or mask.

59. (New) A photochromic screen having a visible colored appearance, comprising:

a photochromic lens part,

the lens part having an inner surface and an outer surface,

the lens part further comprising one or more photochromic dyes; and

a light-transmitting multi-layer thin film coating applied on the outer surface of the lens part, the multi-layer thin film coating comprising a plurality of dielectric layers,

wherein the film coating transmits an amount greater than about 15% of spectral ultraviolet radiation in a range between 315 and 400 nm to the lens part,

the film coating reflecting an amount equal to or greater than about 10% of light in the visible spectrum in a range between 410 and 800 nm so that the screen exhibits the visible colored appearance;

wherein the screen transmits light therethrough.

60. (New) The screen of claim 59, wherein the photochromic dyes in the lens part impart a photochromic range to the screen.